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New combinations, *Scheffersomyces amazonensis* and *S. ergatensis*

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ABSTRACT — On the basis of gene sequence analyses, two new combinations are proposed for the genus *Scheffersomyces* (*Saccharomycotina*, *Debaryomycetaceae*).

KEY WORDS — *Ascomycota*, xylose-fermenting yeasts.

Introduction

Based on recent radical changes to the rules governing the nomenclature of pleomorphic fungi (McNeill et al. 2012: Article 59), seven new combinations were made in the *Scheffersomyces* clade (*Saccharomycotina*, *Debaryomycetaceae*) supported by a multilocus phylogenetic analysis, and three new species were described in *Scheffersomyces* (Urbina & Blackwell 2012). Here we propose two additional new combinations in *Scheffersomyces* for species included in the same phylogenetic analysis, *Candida amazonensis* and *C. ergatensis*.

Taxonomy

Scheffersomyces amazonensis (Cadete, M.A. Melo, M.R. Lopes, Zilli, M.J.S. Vital, F.C.O. Gomes, Lachance & C.A. Rosa) Urbina & M. Blackw., **comb. nov.**

MYCOBANK MB 563718

= *Candida amazonensis* Cadete, M.A. Melo, M.R. Lopes, Zilli, M.J.S. Vital, F.C.O. Gomes, Lachance & C.A. Rosa, International Journal of Systematic and Evolutionary Microbiology 62: 1439, 2012.

Scheffersomyces ergatensis (Santa María) Urbina & M. Blackw., **comb. nov.**

MYCOBANK MB 801388

= *Candida ergatensis* Santa María, Anales del Instituto Nacional de Investigaciones Agrarias, Agrícola, Madrid 1: 85, 1971.

Discussion

An ex-type culture of *Candida amazonensis* UFMG-HMD-26.3^T (= CBS 12363 = NRRL Y-48762) was included in the multilocus phylogenetic analysis (Urbina & Blackwell 2012), but a new combination for this taxon was not proposed because the species name had not yet been effectively published at the time of our revision. A second taxon included in our analysis and in the *Scheffersomyces* clade, *Candida ergatensis* NRRL Y-17652^T (= CBS 6248) was inadvertently omitted from our taxonomic revision (Urbina & Blackwell 2012).

Both *S. amazonensis* and *S. ergatensis* were isolated from rotted wood, and they share the ability to ferment glucose, galactose, and the disaccharide cellobiose, and assimilate other wood components such as D-xylose and D-arabinose (Santa María 1971, Cadete et al. 2012).

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Literature cited

- Cadete RM, Melo MA, Lopes MR, Pereira GM, Zilli JE, Vital MJ, Gomes FC, Lachance MA, Rosa CA. 2012. *Candida amazonensis* sp. nov., an ascomycetous yeast isolated from rotting wood in the Amazonian forest. *Int J Syst Evol Microbiol.* 62: 1438–1440. <http://dx.doi.org/10.1099/ijs.0.036715-0>
- McNeill J, Barrie FR, Buck WR, Demoulin V, Greuter W, Hawksworth DL, Herendeen PS, Knapp S, Marhold K, Prado J, Prud'homme van Reine WF, Smith GF, Wiersema JH, Turland NJ. 2012. International Code of Nomenclature for algae, fungi, and plants (Melbourne Code), adopted by the Eighteenth International Botanical Congress Melbourne, Australia, July 2011. *Regnum Vegetabile* 154. 240 p. <http://www.iapt-taxon.org/nomen/main.php>
- Santa María J. 1971. *Candida ergatensis* nov. spec. *Anales del Instituto Nacional de Investigaciones Agrarias, Agrícola*, Madrid 1: 85–88.
- Urbina H, Blackwell M. 2012. Multilocus phylogenetic study of the *Scheffersomyces* yeast clade and characterization of the N-terminal region of xylose reductase gene. *PLoS ONE* 7(6): e39128. <http://dx.doi.org/10.1371/journal.pone.0039128>